

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2000252725 A**

(43) Date of publication of application: **14.09.2000**

(51) Int. Cl. **H01Q 1/22**
B60R 11/02

(21) Application number: **11050686**
(22) Date of filing: **26.02.1999**

(71) Applicant: **YOKOWO CO LTD**
(72) Inventor: **ABE TOMIO**
TANUMA HIROSHI
KAWAHARA TAKAO

(54) ANTENNA FOR AUTOMOBILE

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain an antenna for automobiles provided with a configuration that ensures waterproof for a case body.

SOLUTION: The antenna is provided with a case body 1 having an antenna element and an electric printed circuit board G equipped with transmission reception electric components in its inside, a base member 2 that supports the electric printed circuit board G and has mount screws 2A to an outer plate panel P and a seal member 3 that is in close contact with the surrounding of the base member 2 to block intrusion of rainwater. A 1st opening 3A to which the mount screw 2A is inserted and a 2nd opening 3B to which a feeder G1 and a signal line G2 are inserted are formed in the seal member 3, the 1st opening 3A is provided with a lip 3A1 in close contact with an outer circumferential face of the mount screw 2A, and the 2nd opening 3B is

provided with boots 3B1, 3B2 having a lengthwise direction along an extension direction of the feeder G1 and the signal line G2, whose one end is integrally formed with the seal member 3 and whose other end is in close contact with the outer circumferential face of the feeder G1 and the signal line G2.

COPYRIGHT: (C)2000,JPO

